		11119.5.5.37.2.5.31.	<u></u>			
	HTRIKER, V. (Leningrad	1)				
	Investigator's	persistence.	Pozh.delo	6:9-10 Mr	'60. (MIRA 13:6)	
	•	(Fires)			(1.2.0- 2).07	
• .						
						,

MORACHEVSKIY, Yu.V.; SHTRIKHMAN, R.A.

Certain data on the chemistry of colored glass prepared by
M.V. Lomonosov. Zhur.prikl.khim. 29 no.9:1432-1435 S '56.

(MLRA 9:11)

(Glass manufacture—Chemistry)

CIA-RDP86-00513R001550110005-3 "APPROVED FOR RELEASE: 08/09/2001

SHTRIKHINHN F. A.

48-5-23/56

SUBJECT:

USSR/Luminascence

AUTHORS:

Merkovskiy L.Ys. and Shirikhasn R.A.

TITLE:

Investigation of Luminescent Properties of Some Boron-Phosphate Compounds (Issledovaniye lyuminestsentnykh svoystv nekotorykh

borcfosfatnykh soyedineniy)

PERIODICAL:

Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaya, 1957, Vol

21, #5, pp 683-685 (USSR)

ABSTRACT:

Luminescent properties of boron phosphate and its salts were investigated. The activation of BPO by manganese, titanium, cerium and neodymium did not yield positive results. In the activation by tallium it was found that the optimum concentration of tallium was 3.5 % and optimum calcination temperature was 700°C. Under these conditions a luminophore with maximum

emission at 410 m mwas obtained.

A special effect of adding B203 in changing luminescent pro-

perties of phosphates was detected.

It was found that cadmium pyrophosphate activated by manganese and boron can be of practical importance. Another luminophore

Card 1/2

48-5-23/56

TITLE:

Investigation of Luminescent Properties of Some Boron-Phosphate Compounds (Issledovaniye lyuminestsentnykh svoystv nekotorykh borofosfatnykh soyedineniy)

of possible importance can be a new phase of cadmium phosphate obtained by sintering initial substances at 750°C. It exceeds industrial trades of phosphates L-34 and L-35 in luminosity and has a more intensive emission in the red region of spectrum.

The report was followed by a discussion.

One Russian reference is cited.

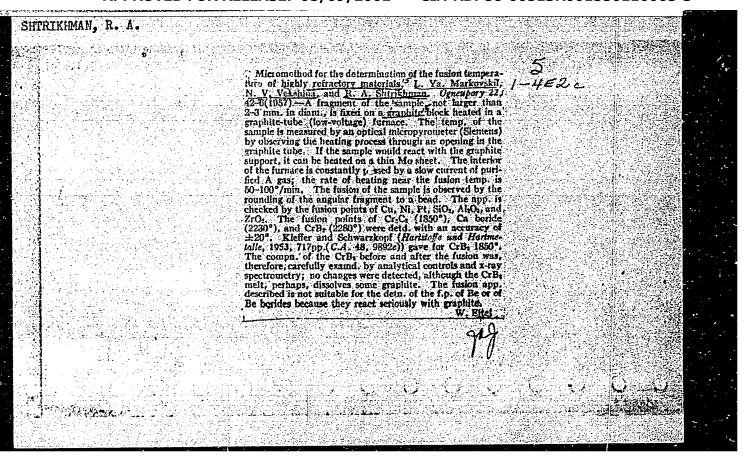
INSTITUTION: State Institute of Applied Chemistry.

PRESENTED BY:

SUBMITTED: No date indicated

AVAILABLE: At the Library of Congress.

Card 2/2



SAMSONOV, Grigoriy Valentinovich, prof., doktor tekhn.nauk; MARKOVSKIY, Lev Yakovlevich, kand.khim.nauk; ZHIGACH, Aleksey Fomich, doktor khim.nauk; VALYASHKO, Mikhail Georgiyevich, doktor khim.nauk. Prinimal uchastiye SHTRIKHMAN, R.A. FRANTSEVICH, I.N., otv.red.; POKROVSKAYA, Z.S., red.izd-va; SKLYAROVA, V.Ya., tekhn.red.

[Boron, its compounds and alloys] Bor, ego soedineniia i splavy. Pod obshchei red. G.V.Samsonova. Kiev, Izd-vo Akad.nauk USSR, 1960. 589 p. (MIRA 14:3)

1. Chlen-korrespondent AN USSR (for Frantsevich).
(BORON)

500

27340 S/080/61/034/009/002/016 D204/D305

AUTHORS:

Shtrikhman, R.A., Shoykhet, D.N., and Markovskiy, L.Ya.

TITLE:

On the primary and secondary processes occurring during the synthesis of zinc-strontium-phosphate

phosphor in reducing atmosphere

PERIODICAL: Zhurnal prikladnoy khimii, v. 34, no. 9, 1961,

1912 - 1920

TEXT: This paper reports studies on the primary reaction involved in the formation of the mixed Zn and Sr orthophosphate base and those reactions which are involved in the specific effect of the reducing atmosphere on the phosphor composition. The base composition studied was $\text{Zn}_{0.44}$ $\text{Sr}_{2.56}$ $(\text{PO}_4)_2$. Separate components of the charge were roasted in air and consisted of: SrHPO_4 , SrCO_3 , Zn_3 $(\text{PO}_4)_2$. $\text{2H}_2\text{O}$. Differential thermal analysis was carried out with a Cr-alumel thermocouple and a multi-point potentiometer type EPP-Card 1/3

273h0 S/080/61/034/009/002/016 D204/D305

On the primary and secondary ...

09. The reactions involved are:

$$2SrHPO_{4} + SrCO_{3} \rightleftharpoons Sr_{3}(PO_{4})_{2} + H_{2}O + CO_{2}$$

$$Sr_{2}P_{2}O_{7} + SrCO_{3} = Sr_{3}(PO_{4})_{2} + CO_{2}$$

$$Sr_{2}P_{2}O_{7} + SrO = Sr_{3}(PO_{4})_{2}$$

In the 3-component mixture, dehydration of the Zn phosphate also occurs. The reducing atmosphere used is a mixture of $\rm H_2$ and $\rm N_2$. Heating in $\rm H_2$ flow alone causes the product to become blackened and lose luminosity. If subsequently roasted in a neutral gas atmosphere at $1100^{\circ}\rm C$, the white color of the product is restored. X-mosphere at $1100^{\circ}\rm C$, the white color of the product obtained by heatray analysis of products showed that the product obtained by heating in $\rm H_2$ (3 - 5 hours) is $\rm Sr_3(PO_4)_2$ with Zn metal impurity, with $\rm Zn_3(PO_4)_2$. Sr phosphate forms at a temperature of $900^{\circ}\rm C$, whereas introduction of Zn into the lattice takes place at a higher tempe-

Card 2/3

27340 S/080/61/034/009/002/016 D204/D305

On the primary and secondary ...

rature and over a longer period of time. The reducing atmosphere may be $\rm H_2 + \rm N_2$ or may be an alternating flow of $\rm H_2 + \rm N_2$ and of $\rm N_2$. The condensate formed during the heating mainly consists of 2n with small amounts of P and $\rm Zn_2P_2$. There are 3 tables, 3 figures, and 21 references: 3 Soviet-bloc and 18 non-Soviet-bloc. The 4 most recent references to the English-language publications read as follows: R.C. Ropp, R.W. Mooney, J. Electroch. Soc., 107, 15, 1960; R.C. Ropp, M.A. Aia, Anal. Chem., 31, 103, 1959; W.L. Wanmaker, B. Bakker, J. Electroch. Soc., 106, 1027, 1959; K.H. Butler, U.S. Patent 2,898,302, 1959.

ASSOCIATION: Gosudarstvennyy institut prikladnoy khimii (State Institute of Applied Chemistry)

SUBMITTED: November 24, 1960

Card 3/3

21090

1,2300

als 1573

S/135/61/G00/005/002/011 A/C06/A101

AUTHORS:

Petrov, A. V., Candidate of Technical Sciences, Shtrikman, M. M.,

Engineer

TITLE:

Investigating the parameters of a shielding gas jet in and welding

PERIODICAL: Svarochnoye proizvodstvo, no. 5, 1961, 5 - 8

TEXT: The authors studied the dependence of the shielding properties of a gas jet on the shape and diameter of the torch nozzle, the distance between the nozzle and the work piece; the consumption of the shielding gas, and some other factors. The experiments were made with a shielded plane surface located perpendicularly to the nozzle axis during welding inargon with tungsten electrode without filler metal in lower position. The outflow of the shielding gas from the nozzle of a welding torch can be represented in the form of a symmetrically active gas jet flowing into a passive immovable medium. For this case the physical model of jet mixing shown in Fig. 1 can be employed. Optimum shielding properties of a gas jet can be experimentally determined. To evaluate the efficiency of the gas shield the method of cathodic spraying was employed: a copper and a steel plate, electrically insulated from each other were placed on the welding



Card 1/5

21090 S/135/61/000/005/002/011 A006/A101

Investigating the parameters of ...

table and an a-; are was alternatingly excited at the edge of each plate (80 amp current; 8 - 10 v are voltage; 5 sec time of are burning). During burning of the arem in the zones adjacent to the welding pool, a zone of eathedic spraying appeared in the form of a bright spot, concentrically arranged in respect to the fusion point. The process is illustrated in figure 2 which shows that when the cathode surface is subjected to the impact of positive argon ions, metal partiales are ejected from the cathode plate in random directions. As a result, iron is revealed on the copper plate and copper on the steel plate. The metal in the zone of cathodic spraying oxidizes if the argon contains air. The efficiency of the argon shield is evaluated from the non-exidized zone of cathodic spraying. Experiments to determine the shielding properties of the gas jet were made with excitation of a stable are on 2 mm thick CH3 (SM3) stainless steel plates. The welding head was fixed in stationary position, the a-c are was excited with the aid of an oscillator. The time of arc burning was fixed with the aid of a time relay. The authors determined the dependence of the shielding properties of the gas jet on the design of the torch nozzle, the state of the nozzle edges, the gas feed conditions, argon consumption, the distance between the nozzle and the work piece, and the nozzle diameter. A series of nozzles with and without internal deflectors were manufactured and tested (Fig. 6 and 8). Results obtained lead to the following conclusions: 1. When using torches with nozzles of up to Card 2/5

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001550110005-3

21090 S/135/61/000/005/002/011 A006/A101

Investigating the parameters of a

20 - 25 mm diameter, the non-oxidized zone of cathodic spraying on the surface of the welded work piece is in the majority of cases characteristic of the argon-jet shielding properties. Measurements of the non-oxidized zone of the cathode spraying when exciting an a-c arc with tungsten electrode can be taken as a basis for determining efficient parameters of the shielding gas jet. 2. The basic requirements to the design of a torch nozzle for arc welding in shielding gas, assuring optimum shielding effects, are as follows: a) the nozzle should be determinated by a cylindrical part whose length must not be below the diameter of the outlet aperture: b) the diameter of the nozzle outlet aperture when welding with tungsten electrodes, must be 12 - 18 mm under welding conditions generally used. Large diameter nozzles (14 - 20 mm) should be used for welding with consumable electrode due to the intensified disturbance of the jet by the arc. Torches of manual argon-arc welding of thin sheet materials should be supplied with about 8 mm diameter nozzles. c) inside the nozzle the formation of separate jets with high outlet speed should be absolutely prevented; for this purpose the insertion of deflectors is recommended or the arrangement of the channels perpendicularly to the nozzle wall; d) the internal nozzle edge should be unrounded and clean, without metal splashings; 3. At the given nozzle diameter, increased gas consumption raises the shielding properties of the jet only up to a certain limit;

Card 3/5

21090 S/135/61/000/005/002/011 A006/A101

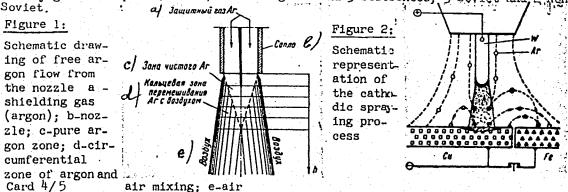
30

ು೦

Investigating the parameters of a ...

0

Beyond this limit a further increase of gas consumption impairs the shielding properties. For 8 - 20 mm diameter nozzles, best shielding properties of the jet are observed at 15 1/min argon consumption. Higher current intensity raises the disturbing effect of the arc on the gas jet. Therefore, it is imperative to increase the nozzle diameter and gas consumption at higher current intensities. For 8 - 18 mm diameter nozzles, the distance from the work piece should not exceed 15 - 18 mm At 25 mm distance even better shielding properties of the gas jet are ineffective at any gas consumption. There are 10 figures and 5 references, 3 Soviet and 2 Non-



"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001550110005-3

23280 S/135/61/000/007/003/012 A006/A106

2300 als 1573

Petrov, A. V., Candidate of Technical Sciences, Shtrikman, M. M.,

Engineer

The effect of rolling welded joints on the properties of welds of

heat-resistant CH (SN) type steels

PERIODICAL: Svarochnoye proizvodstvo, no. 7, 1961, 10-13

The authors investigated the possibility of raising the strength of weld joints of austenite-martensite stainless steels by rolling with subsequent aging at 480° C. Grade CH2 (SN2) and CH3 (SN3) steel specimens ($\delta = 1 \text{ mm}$) were Joined by automatic argon are welding without and with filler wire under the following conditions: without filler metal: I = 70 amps; U = 9 V; V = 15 m/h; with 1 mm-diameter filler wire I = 90 amps; U = 12 v; v = 35 m/h. Cold working of the welds was performed by rolling on a cantilever machine. A system of compressing the weld is shown in Fig. 1. The deformation of welds was approximately evaluated from their thinning. Rolling was performed after full coolingoff of the welded specimens. The effect of fastening the specimens, and of the rolling force on the degree of deformation was studied on devices designed by

Card 1/4

AUTHORS:

TITLE:

23280

The effect of rolling welded ...

S/135/61/000/007/003/012 A006/A106

S. A. Kurkin and others at MVTU im. Bauman. The specimen was fastened either on a backing plate or in a frame (Fig. 2). The possibility of strengthening weld joints by ultrasonic treatment was also investigated, using 0.6 mm thick SN2 steel specimens and a 10 kw ultrasonic generator at 20 cycles frequency. As a result of the tests performed the following conclusions are drawn: The strength of weld joints of the investigated steels is below that of the base metal due to their austenitic structure. The welds can be strengthened by cold working with steel rolls and subsequent aging at 480°C. During cold working the dendritic structure of the weld is destroyed and a martensite phase is formed, which is subjected to dispersion hardening at 400-500°C. The degree of strengthening of the weld (i.e. the efficiency of rolling) is raised with rolling force increasing up to 3,000-4,000 kg. Its further rise entails greater warping of the specimen without noticeable increase of the weld strength. The number of passes and the system of rolling the weld have only a slight effect on its mechanical properties. The method of fastening the specimen affects the strength of the weld. Highest strength is shown by specimens rolled in a frame (Fig. 2). Rolling and aging considerably raise the mechanical properties of the weld joint at higher test temperatures (by a factor of 1.5 at 400°C). Ultrasonic treatment of the weld produces surface strengthening of the metal without raising the strength of the weld joint. Card 2/4

24777 s/125/61/000/008/003/014 DO40/D113

1-2300

Petrov, A.V. and Shtrikman, M.M. (Moscow)

AUTHORS:

The properties of welded joints in SN thin sheet steels

TITLE:

PERIODICAL:

Avtomaticheskaya svarka, no. 8, 1961, 25-30

TEXT: Information is presented on the properties of welds produced by the argon arc method from CH (SN) steel, and a heat treatment system ensuring uniform strength of the welded joints. The heat-resistant SN steel of the austenite-martensite class is widely employed in the machine-building industry. The composition of three "SN" grades is given (Table 1):

Percentage chemical composition

Steel	C	Cr Ni	A1	Mn Si	<u>s</u>	$\frac{\mathbf{P}}{}$
		0	0.7-1.3	0.7 0.7	0.02	0.035
SN3	0.06-0.10	14.0-15.7 7.0-9.4 16.0-17.5 4.5-5.5 14.2-15.8 7.0-8.5	1.2-1.8 1.6-2.4	-	-	<u>-</u>
SN4 Card 1	0.05-0.10	14.2-17.0				

CIA-RDP86-00513R001550110005-3" APPROVED FOR RELEASE: 08/09/2001

24777 s/125/61/000/008/003/014 DO40/D113

The properties of welded joints...

This steel has an austenitic structure after normalization at 1050°C. Additional normalization at 950-975°C causes austenite to become unstable. Cold treatment at -70°C or cold hardening easily transforms austenite into martensite. The presence of Al and Mo causes the formation of a third phase (according to data developed by Ya.M. Potak, V,V, Sachkov and L.S. Popova) in aging at 400-500°C. In strengthened state, the resistance and plasticity modulus of SN at elevated temperatures is 1.5-2 times higher than of any other steel or alloys containing aluminum and titanium. Careful shielding is necessary in welding to protect the metal from oxidation. Heat treated metal near the welds consists of austenite, martensite and separated carbides, and its maximum strength is reduced to 85-95 kg/mm²; the weld metal like the base metal also has lowered strength and acquires a coarse-dendritic austenite structure, while the base metal retains its original martensiteaustenite structure with a clearly expressed rolled texture. It was experimentally impossible to raise the strength of joints by welding with stronger current and correspondingly higher speed. Rolling of welds with subsequent aging at 480°C raised the strength of the joints to 120-130 kg/mm². It was

Card 2/4

2h777 s/125/61/000/008/003/014 po40/pl13

The properties of welded joints...

proved that the joints could be greatly strengthened by normalization at 950-975°C with subsequent cold treatment for 2 hours at -70°C and aging for 1 hour at 450-480°C. Cold treatment and aging alone was practically ineffective. Full treatment (normalization, cold treatment and aging) was particularly effective in strengthening SN4 steel, but did not markedly increase the vibration strength. The resistance of welds to general corrosion was high; however, intercrystalline corrosion developed in heat-treated metal at the welds in the area where the carbides were more separated. Heating to about 900°C caused increased formation of carbides and the highest intercrystalline corrosion. The SN3 steel was the grade most prone to intercrystalline corrosion, particularly after normalization and cold treatment prior to welding. Full thermal treatment after welding fully eliminated this concentrated corrosion; by increasing the aging temperature to 500-550° C, the carbides were separated in the weld metal where intercrystalline corrosion was observed. The following conclusions were drawn: (1) Welded joints of SN steel have a maximum strength of 85-100 kg/mm² and a yield limit of 35-60 kg/mm² after welding, regardless of the state of welded elements prior to welding. (2) Full heat treatment (normalization, cold treatment and aging) may raise the maximum strength and yield point of welded joints

Card 3/4

24777
The properties of welded joints... S/125/61/000/008/003/014
D040/D113

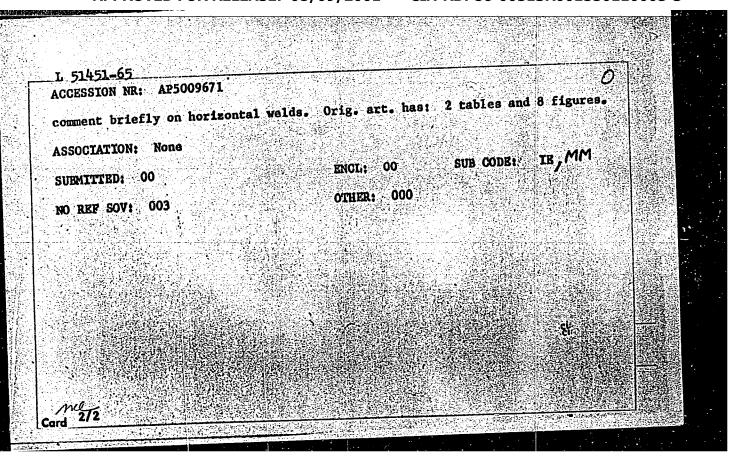
to about the strength and yield limit of the base metal at room temperatures and above. (3) Welding does not reduce the general corrosion resistance of SN steel, but welded joints made of this steel are prone to intercrystalline corrosion in the zone of increased carbide formation. Full heat treatment raises the intercrystalline corrosion resistance if the aging temperature does not exceed 500°C. Welds in SN3 steel have the highest corrosion resistance.

[Abstracter's note: Essentially complete translation] . There are 6 figures, 4 tables and 1 Soviet reference.

SUBMITTED: September 2, 1960

Card 4/4

EWT(d)/EWT(m)/EWP(c)/EWA(d)/EWP(v)/T/EWP(t)/EWP(k)/EWP(h)/EWP(z)/EWP(b)/EWP(1)/EWA(c) P1-4 MJW/JD/HM ACCESSION NR: AP5009671 UR: 0135/65/000/004/0015/0018 621.791.89:669.15-194 B AUTHOR: Petrov, A. V. (Candidate of technical sciences); Slavin, G. A. (Candidate of technical sciences); Shtrikman, M. M. (Candidate of technical sciences) TITLE: Automatic consumable-electrode welding in the vertical plane SOURCE: Svarochnoye proizvostvo, no. 4, 1965, 15-18 TOPIC TAGS: consumable electrode welding, automatic welding, vertical weld technology, gas shield, transverse electrode vibration / ASVP-1 welder, ASGP-1 welder, VNS-5 steel, SN3 electrode ABSTRACT: The ASVP-1 and ASCP-1 automatic welders were used to study the optimal conditions for automatic consumable-electrode welding of vertical or horizontal joints on vertical surfaces of VNS-5 steel in an atmosphere of inert gas (sample thickness 8 -10mm, scam joint). (SN3 welding wire with 0=1.2 - 1.6 mm, a down-ward pass direction, an arc length not exceeding 2 mm and a gas shield of Ar + 10% CO2 provided the best primary layers in vertical welds. Metal of the molten pool should not advance the arc. Optimal amplitudes and frequencies of transverse vibrations of the welding wire, insuring the minimal number of passes needed to complete the second and subsequent layers, are given. The authors also



EWT(m)/EWP(w)/EWA(d)/EWP(v)/T/EWP(t)/EWP(k) IJP(c) SOURCE CODE: UR/0135/66/000/004/0026/0027 ACC NR: AP6011537 AUTHOR: Shtrikman, M. M.; Petrov, A. V. ORG: none TITLE: Improving the properties of welded VN52 steel joints by planishing 18 SOURCE: Svarochnoye proizvodstvo, no. 4, 1966, 26-27 TOPIC TAGS: precipitation hardenable steel, martensitic steel, stainless steel, steel weld, weld planishing/VNS2 steel, SN3 steel ABSTRACT: The effect of planishing on the properties of welded VNS2 and SN3 steel joints has been investigated. Specimens 1 mm thick were TIG welded without filler metal. During planishing, SN3 steel welds were found to be under tension and the weld-adjacent zones, under compression. The welds of VNS2 steel, unlike the majority of steels, are under compression and the weld-adjacent zones are under tension stresses VNS2 steel undergoes the martensitic tranformation with a volume increase in the temperature range 250-350C. The absolute values of residual stresses in the case of

VNS2 steel were found to be 35-50% lower than those of SN3 steel. The planishing was done in one pass with rollers 80 mm in diameter. Flanishing with a pressure of 1500-2000 kg almost completely eliminated the internal stresses and distortion. No structural changes were observed in planished metal. Planishing with a pressure of 1000-3000 kg increases somewhat the tensile strength of VNS2 steel joints. Subsequent

Card 1/2

UDC: 621.791.052.004.12:621.771

L 22976-66			1, 1		
ACC NR: AP60115	37				
				≪ .	14.5A
ging brings about	a further increase	of 15-20 kg, to	shout 1/0 kg/2	m. 1 1	
ne strength of VN	IS2 welds increased w	iith incressing of	kg/mm for planis	shed welds. 19	
				luction of	
S2 steel, to the	heat-affected zones	urus bressnie mus	c be applied to w	elds, and in	
	directed Zones	• Orig. art. nas	: 5 figures.	[WW]	
JB CODE: 11/ SU	BM DATE: none/ OPT	C DEE. OOO! Amm			
	BM DATE: none/ ORI	G REF: 002/ ATD	PRESS: 2/239		
		and the first of the first of the			
					-7-974
					431
					47 - 17 - 1

A. W. C.	
1 27200-66 EWP(k)/EWT(m)/T/EWA(d)/EWP(v)/EWP(t)/ETI IJP(c) JD/HM/WB/JT	
ACC NR: AP6015239 (N) SOURCE CODE: UR/0125/66/000/005/0006/0007	
$m{z}$	
AUTHOR: Shtrikman, M. M. 28	
org: <u>niat</u>	- 12 Aug
[18] 그 그 전 시민 [17] 이 그는	
TITLE: Effect of refrigeration on the structure and properties of WNS5 steel	
welded joints 4	
5 1066 6-7	
SOURCE: Avtomaticheskaya svarka, no. 5, 1966, 6-7	
TOPIC TAGS: steel, precipitation hardenable steel, austenitic martensitic steel,	
steel welding steel weld, weld heat treatment, weld refrigeration, weld property/	
steel welding, steel weld, weld heat treatment, weld refrigeration, weld property/ VNS5 steel, IKhl5NSM2 steel	
ARCTRACT. The effect of refrigeration on the properties of welded joints in	
i_t_t_t_on_bordonable_quetenitic_martensitic_VNS5 (1Khl5NSM2) steel nas been	
demonstrated in a search for an effective method of heat treatment for welded sheet	
I manta which connect he subjected to full heat treatment including annealing at 1000 of	
Heat-treated steel specimens 3 mm thick were TIG welded, refrigerated (without	
annealing) at -70C, -55C or -40C for 2240 min, and tempered at 450 C for 1 hr. It was found that the weld and weld-adjacent zones refrigerated at -70 C for 2 hr con-	
was found that the weld and weld-adjacent zones leftigetates. tain a considerable amount of residual austenitic (up to 25%). Refrigeration at	
-55 C produces almost the same result as that at -70 C, with the martensite content	
1 1 b1- 10157 Subsequent tempering at 450 C for 1 hr substancially in	
creases the hardness and strength of weld metal and stabilizes its structure, though	2
【1000000000000000000000000000000000000	
Card 1/2 UDC: 621.791.053:621.784.8	
	\$73,600 (3.5) 30,600 (4.5)

L 27200-66			
ACC NR: AP6015239			
the tensile strength remains lowhich case it is at least 120 k metal in as-welded condition is about 5 kgm/cm². The notch tou and tempered at 450 C for 1 hr does not eliminate the carbide the metal is susceptible to intwelding with a low heat input.	g/mm ² . The notch toughness about 12 kgm/cm ² ; full hea ghness of specimens refrige was found to be 7 kgm/cm ² . network in the heat-affecte ergranular corrosion. This	of weld and weld-zone t treatment lowers it to rated at -55 C for 20 min Refrigeration, however, d zone and, as a result, can be reduced by	
SUB CODE: 13, 11/ SUBM DATE:	24Jan66/ ORIG REF: 001/	OTH REF: 001/ ATD PRESS:	
		4258	
Card 2/2 CC			

JD/HM ENT(m)/ENS(w)/EAS(v)/T/EAF(t)/ETI/END(k)13P(c) UR/0135/66/000/007/0010/0012 SOURCE CODE: ACC NR: AP6023436 AUTHOR: Shtrikman, M. M. (Candidate of technical sciences) ORG: none TITLE: The effect of 6-ferrite on the impact strength of the weld metal in joints of austenite-martensite steels SOURCE: Svarochnoye proizvodstvo, no. 7, 1966, 10-12 TOPIC TAGS: impact strength, weld evaluation, arc welding / SN2 steel, SN3 steel, SN4 ABSTRACT: The causes of brittle fracture in the weld metal in the joints of SN2, SN3, SN4 and VNS5 austenite-martensite steels and the effect of 6-ferrite on impact strength are investigated. Mechanical tests of weld joints from these steels showed the impact strength of the weld metal and the welded joints to be high after welding. However, subsequent heat treatment (normalization from 950-1050°C, cold working at -70°C for 2 hr, aging at 400-500°C for 2 hr) caused a sharp drop in impact strength and produced brittle fracture, especially in the weld metal. Subsequent tests were made on SN2 steel strips 80 mm thick. As a filler metal for argon-arc welding of these strips, SN3 metal electrode (d=1.6 mm) was used. Micrographic and macrographic analysis showed an increase in grain size and a more oriented structure in the upper passes. Specimens for 621.791.01:669.15-194 Card 1/2

L 04504-07 ACC NR: AP6023436

mechanical tests were prepared from the first, second and third passes. Tests showed that the plasticity of the upper passes is less than that of lower passes. In the central part of weld metal of SN3 steel joints, the quantity of δ-ferrite was 1.35 times more than in the peripheral zone. The as-welded specimens had δ-ferrite in the austenitic base metal which exhibited high plasticity and impact strength. The post heated specimens had the δ-ferrite interlayer in a hard martensitic base. Thus the orientation of these interlayers determine the locations of brittle failure in the specimens. A variety of post heat treatments of welded specimens 13 mm thick from SN3 and SN2 did not improve the impact strength of the weld; neither did they provide close-grained, less δ-ferrite oriented phase. Aging at 450-500°C decreased the impact strength by 20-40% in comparison with aging temperatures 400 or 600°C. The highest impact strength was obtained for metal thicknesses up to 20 mm using austenite filler metal 08Kh20N10G6\overline{On VNS5} and SN3 steels. VNS5 filler metal on VNS5 steel gave less δ-ferrite, however, depending on the orientation of the δ-ferrite grains, the impact strength values varied considerably. A new Kh14N8M2 filler metal which is designated as Sv-VNS5 to be used on VNS5 steels could completely eliminate the formation of δ-ferrite structure, thus providing high mechanical properties. Orig. art. has: 7 figures, 2 tables.

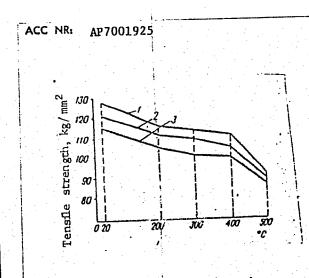
SUB CODE: 11,13/ SUBM DATE: none/ ORIG REF: 003

Card 2/2 -2C

SOURCE CODE: UR/0125/66/000/012/0009/0012 (N)ACC NRI AP7001925 Shtrikman, M. M. (Noscow) AUTHOR: ORG: none TITLE: Properties of welded joints in heat-resistant stainless steels SOURCE: Avtomaticheskaya svarka, no. 12, 1966, 9-12 TOPIC TAGS: precipitation hardenates stainless steel, stainless steel welding, welded joint property/VNS2 stainless steel, UNS5 stainless steel, SN2 stainless steel SN3 stainless steel ABSTRACT: Welded joints in SN-2, SN-3, VNS-2 and VNS-5 precipitation-hardenable stainless steels contain a zone located within the heat-affected zone which is more susceptible to attack by various corrosive media and has a lower ductility than the rest of the weld. In bend tests, for instance, cracks form in this zone at an angle 20-30% lower than in other zones. In tensile tests at 300-500C, the failure occurred mostly in this zone. A number of methods were tested in an attempt to prevent the formation or at least to reduce UDC: 621.791.856:669.14.018.47

Card

1/2



rig. 1. Temperature dependence
of the crength of VNS-2 steel
she thick (1) and welds
mad lsed-power (2) or
con all power (3)

the width of the zone. It was found that increasing the titanium content in the VNS2 steel decreased the width of the zone by 1/3. Welding with copper backing instead of steel backing accelerated the heat dissipation and decreased the width of the zone by 30-50%. Annealing at temperatures over 950C eliminates the zone, but annealing is not always possible. Planishing was found to have no effect, and planishing combined with rolling had a strong negative effect. The use of argon with 10% H₂ or with 60% He, or helium alone and pulsed-power welding were found to be beneficial. With pulsedpower welding, the width of the entire heat-affected zone was reduced by 20-30% and the weld strength was increased by about 5 kg/mm², as compared to conventional power welding (see Fig. 1).

SUB CODE: 13/, SUBM DATE: 24Mar66/ ORIG REF: 005/ ATD PRESS: 5112

Card 2/2

s/136/61/000/012/003/006 E193/E383

Zelenov, V.I. and Shtrineva, Z.M.

Hydrometallurgical extraction of tellurium from AUTHORS:

tellurium-bearing products TITLE:

Tsvetnyye metally, no. 12, 1961, 59 - 61

Work carried out recently at TsNIGRI has shown PERIODICAL: that tellurides (mainly Bi2Te2S), present in several gold-ore

deposits, can be separated by flotation and that a concentrate containing 3 500 g/t Te can be obtained in this manner. A hydrometallurgical process of extracting Te from this concentrate is described in the present paper. The development work was carried out on a flotation concentrate obtained during largescale tests of separation of Te from low-sulphide, gold-bearing ores. The concentrate consisted mainly of pyrite and arseno... pyrite and contained 400 g/t Te. A calcium hypochlorite mixture, alkaline solutions and solutions of chlorides of several metals were tried as the leaching reagents.

Card 1/42

s/136/61/000/012/003/006 E193/E383

Hydrometallurgical extraction

The best results were obtained by treating the concentrate with gaseous chlorine in an aqueous solution of sodium chloride. This treatment was carried out in apparatus illustrated schematically in Fig. 1, showing: 5 chlorinator (organic-glass 4. - pump; 3 - chlorine cylinder; 2 - vessel with saturated sodium-chloride solution; 6 - V-shaped pressure vessel); glycerin gauge with a floating contact; 1 - electromagnet; was used as the sealing fluid in the chlorinator and in the pressure gauge. The chlorine was circulated in the closed circuit: cylinder- chlorinator - pump - cylinder. The following optimum conditions of the treatment were established: particle size of the concentrate - 80% of the 0.074 mm fraction; liquid; solid ratio in the pulp 4:1; duration of the chlorinating treatment 30 min; chlorine consumption 320 kg per 1 ton of concentrate. 85% recovery was attained under these conditions. Hypochlorous acid, which is formed according to:

 $C1_2 + H_20 \Rightarrow HC1 + HOC1$,

Card 2/K

S/136/61/000/012/005/006.

Hydrometallurgical extraction E193/E383

is the main oxidising agent in the process described. (Te (60 - 80 g/t) is present in the solution as telluric acid and possibly as a complex TeCl 2NaCl. The beneficial effect of sodium chloride is illustrated in Fig. 2, where the quantity (mg) of tetradymite leached out is plotted against the chlorination time (hours) in water (continuous curve) and in a 10% sodium-chloride solution (broken curve). Te in the leaching solution can be almost fully (97 - 98%) precipitated with sulphur dioxide (28 kg/t of solution). The precipitate obtained in this way constitutes a dark powder containing 53% Te and a small quantity of As, Bi, Cu, Sb and Pb. By incorporating the process described in the present paper in the treatment of low-sulphide Te- and gold-bearing ores (in the manner shown on a flow-sheet given in the paper) more than 60% To present in these ores can be recovered. There are 3 figures and 4 Soviet-bloc references.

Card 3/4

RANNEY, G.G.; VYSOKOVSKIY, 3.M.; MERKULOVA, R.M.; LGGVINOV, L.M.;
FOTAPOV, V.I.; SHTRITS, V.V.

Using continuous operating dynomometers on strip mills.
Metallurg 10 no.5:25-27 Je '55. (MIRA 18:6)

1. Nauchno-issledovatel'skiy institut metallurgii i Ashinskiy metallurgicheskiy zavod.

SHTRITER, V.A

Blood Pressure in Different Professional Groups.

V. A. Shtriter. (Ter. Arkh.) 26, 50-55, March-April, 1954.

The author reports the results of an analysis of blood pressure readings of 25,937 factory workers (13,439 men and 12,498 women) which were recorded during the decade 1936-46. Only systolic pressures were considered for, as the author puts it, "changes in the diastolic level did not materially differ from those in the systolic pressure". The limits of normal systolic pressure were arbitrarily

Before the war high blood pressures were recorded is only 9% of male workers, fixed at 100 to 140 mm. Hg. while up to 17% were assessed as "hypotensive". During the war years the proportion of sufferers from high blood pressure rose sharply, reached its maximum in 1943, and thereafter declined, but even in 1946 it was 50% higher than in 1936. A rise in the incidence of hypertension was observed as early as 1940, that is during the war with Finland, when there was as yet notwidespread malnutrition.

The incidence of hypertension was found to increase rapidly with age; thus, in 1943-4, 88.7% of individuals in the age groups above 50 were found to have hypertension, whereas for the age group 20-29 this figure was only 5.7% (ratio 15.6 to 1). The respective figures for 1946 were 53.1% and 3.1% (ratio 17.2 to 1). Men and women were found to be equally prone to develop high blood pressure. Hard physical labour and work associated with nervous tension were found to favour the develop-

Some tendency to hypotension was found among lead workers (5,428 cases), and ment of hypertension. also among those in contact with benzole derivatives. Industrial contact with

(Continued)

Blood Pressure in Different Professional Groups.

mercury, aromatic nitro-compounds, and carbon disulphide did not appear to affect the blood pressure.

A. Swan

SO: ABSTRACTS OF WORLD MEDICINE Vol. 16 No. 5

SHTROBEL', V.; ROMANKOV, P.G.; KONOVALOV, V.I.; LYUTAYA, N.S.

Study of mass transfer in a rotor-disk extractor. Zhur.prikl.khim.
(MIRA 17:2)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.

SHTROBEL', V.; ROMANKOV, P.G.; KONOVALOV, V.I.; LYUTAYA, N.S.

医性性病毒性性性病毒性 医根线电路性病 医克拉克氏征 计中心工作证明

Study of hydrodynamics without mass transfer and in the presence of mass transfer in a rotor-disk extractor. Zhur. prikl. khim. 36 no.12:2672-2680 D'63. (MIRA 17:2)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.

KONOVALOV, V.I.; SHTROBEL', V.O.; ROMANKOV, P.G.

and the second of the second o

Criterial equations of choking for countercurrent extraction columns. Zhur.prikl.khim. 34 no.9:1966-1971 S '61. (MIRA 14:9)

1. Kafedra protsessov i apparatov Leningradskogo tekhnologicheskogo instituta imeni Lensoveta.

(Extraction apparatus)

SHTROBINDER, M. F.

SHTROBINDER, M. F. and DRIABINA, M. M. "Experiment on the use of Conn-Cholodny's Method in the Microbiological Investigation of Vegetables and Fruits during Storage," Mikrobiological, vol, 4, no. 3, 1935, pp. 379-384. 448.3 M582

SO: SIRA SI - 90-53, 15 December 1953

Country: USSR

Category: Soil Science Organic Fertilizers

Abs Jour: RZhBiol , No 14, 1958, No 63120

Author : Shtrobinder, M.F.

: Scientific-Research Institute of Agriculture of the Inst

Krayniy North

THE REPORT OF THE PROPERTY OF

The Use of Rectorial Fertilizers in the Yernlo-Title

Nenetskiy National Okrug of Tyunenskaya Oblast'

Orig Pub: Byul neuclino-tellin inform n.-i. in-t s. Eh. Krayn

Severa, 1957, No 2, 43-44

Abstract: Experiments by the Salekhardskaya Experimental Station

carried on since 1946 showed the great effectiveness of bacterial fertilizers - azotobacter and AMB - on the tundre souls of the Yaralo-Menetshay national okrug. The effectiveness of local bacterial fertilizers was

: 1/2 Card

J-55

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110005-3"

S/226/62/000/001/013/014 1003/1201

1.1600

Petrdlik, Miroslav and Shtrobl, Yaroslav.

Authors: Title:

SINTERED STEEL ALLOYED WITH COPPER, NICKEL AND CARBON.

Periodical:

Poroshkovaya metallurgiya, no. 1(7), 1962, 88-92

Text: The authors studied the effect of the addition of nickel, copper and carbon powders to steel powder on the properties of the resulting sintered alloy. The effect of various alloying elements is shown on a three-dimensional diagram representing the dependence of tensile strength and hardness of the sintered alloys on their content of alloying elements. The addition of nickel raises the strength of sintered steel, especially in the presence of copper. A metallographic investigation showed that the structure of these alloys consisted chiefly of ferritic grains. The addition of copper inhibits the grain growth of ferritic grains and promotes the growth of the iron-nickel phase. There are 2 diagrams, 3 micro-photographs and 1 table. Ref. includes no. 7 S. R. Crooks, Metal Progress, 74, 6, 68, 1958.

Association: Institut poroshkovoy metalurgii, Praga (Institute of Powder Metallurgy, Prague).

Submitted: August 20, 1961

Card 1/1

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110005-3"

SHTROM, K.; KOROLEVA, S.

Devaluation of the French franc and Finnish mark. Den. i kred. 16 no.1:74-79 Ja '58.

(France--Money) (Finland--Money)

ALITSHULER, A.; SHTROM, K.

New payment agreement with Italy. Den. 1 kred. 16 no.2:79-80 F '58 (Russia--Commerce--Italy) (MIRA 11:3)

SHTROM, V.V., inzhener; GIMEL'FARB, S.P., inzhener.

Meulding machine for the production of rigid mineral weel slabs by the intermittent method. Strei; i der.machinestr.ne.7:18-21 J1 '56.

(Mineral weel) (Building materials) (MIRA 9:10)

BOGANOV, A.I.[deceased]; LEVCHENKO, P.V., kand. tekhm. nauk; DOLGANOV, Ye.A., inzh.; SHTROM, V.V., inzh., retsenzent

[Rotary kilns in the cement industry] Vrashchaiushchiesia pechi tsementnoi promyshlennosti. Moskva, Mashinostroenie, 1965. 318 p. (MIRA 18:2)

ZELICHENOK, Gavriil Grigor'yevich, kand.tekhn.nauk; SHTROM, V.V., inzh., retsenzent; TSIKERMAN, L.Ya., doktor tekhn. nauk, red.; DUBASOV, A.A., red. izd-va; TIKHANOV, A.Ya., tekhn. red.

[Means and layouts for the automation of transportation and storage and technological processes at concrete plants] Sredstva i skhemy avtomatizatsii transportno-skladskikh i tekhnologicheskikh protsessov na betonnykh zavodakh; spravochnoe posobie. Moskva, Mashgiz, 1962. 457 p. (MIRA 15:7) (Concrete plants) (Automation)

SHTROM, Vladimir Vladimirovich; SAFOZHNIKOV, M.Ya., kand, tekhn. nauk, retsenzent; LAPIR, F.A., inzh., red.; OTDEL'NOV, P.V., inzh., red. izd-va; GGRDEYEVA, L.P., tekhn. red.

[Machinery and equipment for the production of thermal insulating building materials and elements] Mashiny i oborudovanie dlia proizvodstva teploizoliatsionnykh stroitel nykh materialov i izdelii. Moskva, Mashgiz, 1962. 133 p. (MIRA 16:2) (Insulation (Heat))

(Building materials industry--Equipment and supplies)

TERON, V.V.: SAFOZHNIKOV, M.Ya., kand. tekhn. nauk, prof.,
TESENZENT; KALISH, L.I., inzh., red.

[Equipment for the production of lightweight fillers] Oborudovanie dliz proizvodstva legkikh zapolnitelei. Moskva, rudovanie dliz proizvodstva legkikh zapolnitelei. Moskva, Izd-vo Mashinostroenie, 1964. 246 p. (MIRA 17:8)

KRYUKOV, D.K.; SHIROM, V.V., retsenzent

[Lining of ball mills] Futerovki sharovykh mel'nits. Moskva, Mashinostroenie, 1965. 183 p. (MIRA 18:7)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110005-3"

ARABEY, B.G. (Moskve); SHTROM, Ye.N. (Moskve); IMPITSKIY, Yu.A. (Moskve)

Characteristics of the technology of multing compact parts and the mechanical properties of certain rare-earth metal hexadorides.

(MIRA 18:10)

Porosh.met. 4 no.5265-70 S-0 164.

L 32223-65 EWP(e)/EWT(m)/EWP(w)/EPF(n)-2/EWA(d)/EPR/T/EWP(t)/EWP(b) Ps-4/Pu-4 L 32223-65 EWP(e)/EWT(m)/EWP(w)/EPF(n)-2/EWA(d)/EPR/T/EWP(t)/EWP(b) Ps-4/Pu-4 S/0226/64/000/005/0065/0070 S/0226/64/000/005/0065/0070 S/0226/64/000/005/0065/0070 AUTHOR: Arabey, B.G. (Moscow); Shtrom, Ye.N. (Moscow); Lapitskiy, Yu.A. (Moscow) TITLE: Characteristics of the production process of compact parts and mechanical properties of certain rare metal hexaborides 1964 65-70		
TOPIC TAGS: lanthanum boride, samarium boride, europium boride, dysprosium boride, hot workability, density, brittleness ide, hot workability, density, brittleness ABSTRACT: The authors investigated the laws governing the hot workability of La, Sm, Eu and Dy hexaborides and assessed their mechanical properties. 10 La, Sm, Eu and 70x30x20 mm specimens were subjected to hot pressing for 1 to mm diam. and 70x30x20 mm specimens were subjected to hot pressing for 1 to mm diam. Compact parts having a density that approximates the calculated va- 25 minutes. Compact parts having a density that approximates the calculated va- 10 lie were produced within the 1950 to 2050 C range under a load application of 10 lie were produced within the 1950 to 2050 C range under a load application of 10 lie were produced within the 1950 to 2050 C range under a load application of 10 lie were produced within the 1950 to 2050 C range under a load application of 10 lie were produced within the 1950 to 2050 C range under a load application of 10 lie were produced within the 1950 to 2050 C range under a load application of 10 lie were produced within the 1950 to 2050 C range under a load application of 10 lie were produced within the 1950 to 2050 C range under a load application of 10 lie were produced within the 1950 to 2050 C range under a load application of 10 lie were produced within the 1950 to 2050 C range under a load application of 10 lie were produced within the 1950 to 2050 C range under a load application of 10 lie were produced within the 1950 to 2050 C range under a load application. 10 lie were produced within the 1950 to 2050 C range under a load application of 10 lie were produced within the 1950 to 2050 C range under a load application. 11 lie were produced within the 1950 to 2050 C range under a load application of 12 lie were produced within the 1950 to 2050 C range under a load application of	ACCESSION NR: AP4046747 S/0226/64/000/005/005/005/005/005/005/005/005/00	

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110005-3"

L 32223-65			
ACCESSION NR: AP4046747			
strength at room temperatui and 4 tables	re was 13 to 18 dn/mm	. Orig. art. has: 5 figu	es ()
ASSOCIATION: None			
SUBMITTED: 25Oct63	ENCL: 00	SUB CODE: MM	
NR REF SOV; 005	OTHER: 002		
rd2/2			

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110005-3"

SHTROMBAKH, I. YA.

23846 REMONT POLOZKOV STOPTSILINDROVYKH PLOSKOPECHATNYKH MASHIN. POLICR. PROIZVODSTVO, 1949, NO. 4, S. 15-16

SO: LETOPIS' NO. 31, 1949

The fallact of the German theory retarding the role of tanks in modern variance. No 3. Canhist, No 12, 1919.

SHIRONER	5G. A.				
entres.					
	The use of historical	examples in the	t aching of tactics.	. No 5.	
	Tankist, No 12, 1948.				

SHTROMBERG, A.Ya.

Cambium and secondary growth in the conducting system of the common privet leaf. Soob.AN Gruz.SSR 21 no.5:569-574 N '58.

(MIRA 12:5)

1. Tbilisskiy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut. Predstavleno akademikon L.I. Dzhaparidze.

(Botany--Anatomy) (Privet)

17(1) SOV/20-124-3-59/67 AUTHOR: Shtremberg, A. Ya. Cambium Activity in the Leaves of Several Dicotyledonous Ligneous TITLE: Plants (Deyatel'nost' kambiya v list'yakh nekotorykh drevesnykh dvudol'nykh rasteniy) Doklady Akademii nauk SSSR, 1959, Vol 124, Nr 3, pp 699-702 (USSR) PERIODICAL: The scanty data on the cambium activity in the leaves have induced ABSTRACT: the author to make observations in this field. The surest method of determining the results of cambium activity is the counting of the procambial cells at earlier development stages. The number of cells is compared with that of the xylem elements in the mature vascular bundles. As regards the cambial cells themselves, their detection postulates a detailed study of the leaves during ontogenesis, in which study the individual development stages of the vascular system have to be continually compared with each other. This time-consuming investigation was carried out by the author with several plants. In Betula chinensis, Fagus orientalis and Celtis caucasica, no cambium could be noticed in the leaf. In some other plants, the rudiments of the cambium are formed in the vascular bundles of the petiole and in the midrib. Its activity, however, remains greatly limited. Thus, e.g., in the vine (Vitis Card 1/3

sov/20-124-3-59/67

Cambium Activity in the Leaves of Several Dicotyledonous Ligneous Plants

vinifera) the cambium rudiments in the leaf veins are not formed as a coherent layer but in the form of individual cells or cell groups. In the mountain elm (Ulmus montana) the cambium activity is more marked in the midrib (Fig 1). In summing up it can be said that the cambium was either totally absent in the leaves of the deciduous plants investigated, or did not show any significant activity in the leaf veins. On the other hand, the leaves of all the evergreen plants investigated are characterized by a considerable cambium activity. Thus in Ligustrum vulgare the rudiments of the midrib cambial cells are formed at a very early date. They develop from the peripheral cell layer of the procambium by tangential division. In the leaves of Laurocerasus officinalis and Viburnum rhythidophyllum, the cambium activity occurs on about the same pattern as in Ligustrum. In Ilex aquifolia and Euonymus japonica, the cambium does not resume its activity in the 2nd year of the plant's life. The observations made by the author have shown that in evergreen plants the cambium activity takes place during the first year and occasionally continues into the 2nd year. On the basis of these few findings, it can not yet be stated that there is a definite relation between the reduction in the cambium activity of the leaf and the shedding of leaves. At any rate, it is obvious

Card 2/3

SOV/20-124-3-59/67

Cambium Activity in the Leaves of Several Dicotyledonous Ligneous Plants

that different forms of cambium activity exist in the plants mentioned in the title, the cambium being in some cases fully differentiated into mechanical elements. In the petiole the cambium activity is more marked than in the midrib. In the midrib its activity is higher in the lower part. The above mentioned origin of the cambium confirms the view point according to which the procambium and the cambium are development stages of one and the same meristematic tissue. Professors A. A. Yatsenko-Khmelevskiy, and Ye. M. Ezau (Davis, California, USA) participated as advisors. There are 3 figures and 7 references, 1 of which is Soviet.

ASSOCIATION:

Tbilisskiy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut (Tbilisi Scientific Chemico-Pharmaceutical Research Institute)

PRESENTED:

September 24, 1958, by A. L. Kursanov, Academician

SUBMITTED:

September 24, 1958

Card 3/3

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110005-3"

SHTROMBE	ERG, A.Ya.	
	Structural characteristics of the water-conducted deciduous and evergreen leaves of woody dicoty	ting system in ledons. Bot. zhur. (MIRA 14:9)
	46 no.9:1321-1324 5 01. (LeavesAnatomy)	

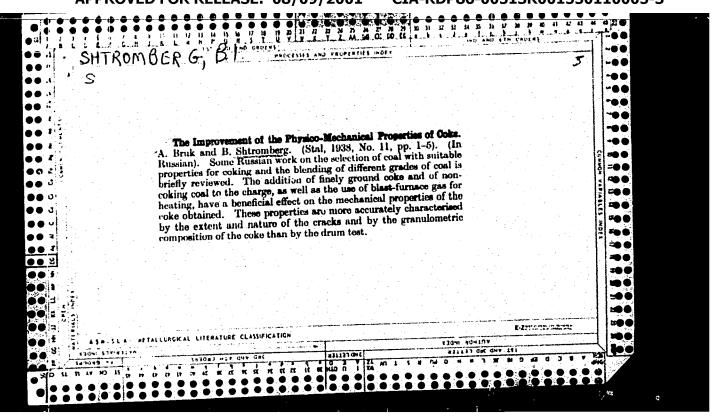
APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110005-3"

Comparative study of elements of the xylem in leaves and stems of dicotyledons. Pokl. AN SSSR 136 no.6:1478-1481 F '61. (MIRA 14:3) 1. Tbilisskiy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut. Predstavleno akademikom A.L. Kursanovym. (Plant cells and tissues) (Dicotyledons)	SHTROMBI	ERG, A. Ya.		
institut. Predstavleno akademikom A.L. Nursanovym. (Plant cells and tissues)		dicotyledons. Dokl. AN SSSR 136 no.6:1478-1481 F	(MIRA 14:3)	
		institut. Predstavleno akademikom A.L. Aursanovym. (Plant cells and tissues)	rmatsevticheskiy •	

ANELI, N.A.; SHTROMBERG, A. Ya.

Special characteristics of the structure of the conducting system in the Georgian genistas. Bot. zhur. 49 no.7:1018-1022 Jl *64 (MIRA 17:8)

1. Khimiko-farmatsevticheskiy institut, Tbilisi.



SHTROMBERE, B.I.

VODNEY, G.G.; SHELKOY, A.K.; DIDENKO, V.Ye.; FILIPPOV, B.S.; TSAREY, M.N.;

ZASHVARA, V.G.; LITVINENKO, M.S.; MEDVEDEY, K.P.; MOLODTSOV, I.G.;

IGALOV, K.I.; RUBIN, P.G.; SAPOZHNIKOV, L.M.; TYUTYUNNIKOV, G.N.;

DMITRIYEV, M.M.; LEYTES, V.A.; LERNER, B.Z.; MEDVEDEY, S.M.; REVYAKIN,

A.A.; TAYCHER, M.M.; TSOGLIN, M.E.; DVORIN, S.S.; RAK, A.I.; OBUKHOV
SKIY, YA.M.; KOTKIN, A.M.; ARONOV, S.G.; VOLOSHIN, A.I.; VIROZUR, Ye.V.;

SHVARTS, S.A.; GINSBURG, Ya.Ye.; KOLYANDR, L.Ya.; BELETSKAYA, A.F.;

KUSHNEREVICH, N.R.; BRODOVICH, A.I.; NOSALEVICH, I.M.; SHTROMBERG, B.I.;

MIROSHNICHENKO, A.M.; KOPELIOVICH, V.M.; TOPORKOV, V.Ya.; AFONIN, K.B.;

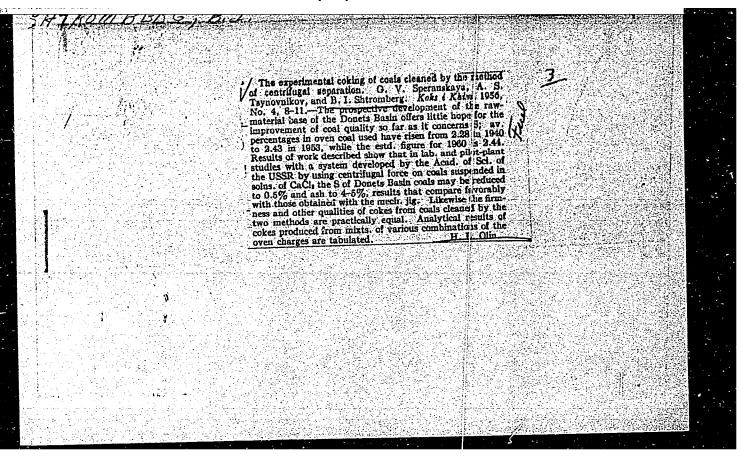
GOFTMAN, M.V.; SEMENENKO, D.P.; IVANOV, Ye.B.; PEYSAKHZON, I.B.;

KULAKOV, N.K.; IZRAELIT, E.M.; KVASHA, A.S.; KAFTAN, S.I.; CHERMNYKH,

M.S.; SHAPIRO, A.I.; KHALABUZAR, G.S.; SEKT, P.Ye.; GABAY, L.I.;

SMULISON, A.S.

Boris Iosifovich Kustov; obituary. Koks i khim. no.2:64 '55.(MLRA 9:3) (Kustov, Boris Iosifovich, 1910-1955)



CATRINGERG, BIT.

68-11-2/11

AUTHORS: Miroshnichenko, A.M., Candidate of Technical Sciences and

Shtromberg, B.I., Candidate of Technical Sciences.

TITIE: Resources of Coking Coals for the Southern Region

(Ugoli naya baza koksovaniya yuga)

PERIODICAL: Koks i Khimiya, 1957, No.11, pp. 10 - 14 (USSR)

ABSTRACT: The development of resources of coking coals for the southern works is outline. The distribution of coals according to their technological grades in coal reserves and in coal output during 1940, 1951, 1955, 1956 and in planned output for 1960 is given in Table 1 and the distribution of coal reserves of the Donets basin according to their sulphur content in Table 2. Changes in the composition of coal blends from the Donets coals during 1935-1956 and typical blends proposed by UKhIN for the next five years are shown in Tables 5 and 4, respectively. There are 4 tables.

ASSOCIATION: UKhIN

AVAILABLE: Library of Congress

Card 1/1

SHIROM BERG, 81.

PHASE I BOOK EXPLOITATION

SOV/2127

5(1)

Koksokhimicheskoye proizvodstvo; sbornik statey (By-Product Coking Industry; Collection of Articles) Moscow, Metallurgizdat, 1959. 240 p. 2,500 copies printed.

Ed.: B. S. Filippov; Ed. of Publishing House: A. A. Revyakin; Tech. Ed.: P. G. Islant'yeva

FURPOSE: The book is intended for engineers and technicians in the by-product coking industry and in scientific research institutes. The book may also be used by students in secondary and higher technical schools.

COVERAGE: The articles in this collection on the by-product coking industry appeared originally either in the periodical Koks 1 khimiya (Coke and Chemistry) or in other publications during 1955-1958. The book discusses the development of raw-material reserves for coking, technology of the manufacture of coke, quality of coke and further enlargement of the number of chemical coking products obtained. Some articles are devoted to a new procedure for preparing and beneficiating coals, new methods for coking, and to the mechanization and automation of industrial processes. References accompany individual articles.

Card 14

SOV/68-59-5-3/25

AUTHORS: Miroshnichenko, A.M., and Shtromberg, B.I.

TITLE: An Investigation of the Donets Coals using Methods

Adopted in the International Classification of Coals (Issledovaniye donetskikh ugley metodami, prinyatymi v

mezhdunarodnoy klassifikatsii)

PERIODICAL: Koks i khimiya, 1959, Nr 5, pp 5-10 (USSR)

ABSTRACT: An investigation of the typical coals from the Donets

Basin using methods adopted for the international classification of coals and the comparison of the

results obtained with indices obtained using the plasto-

metric method of L.M. Sapozhnikov, is described. A comparison of the Roga number and thickness of the plastic layer for the typical Donets coal is shown in Table 1 and Fig 1; the relationship between the

classification parameters of the Donets coals according to GOST 8180-56 and the parameters of the international classification in Table 2; the relationship between the maximum expansion and the thickness of the plastic

layer in Fig 2; the distribution of Donets coals

according to types of the international classification in Table 3; and the distribution of Donets coals on Card 1/3

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110005-3" SOV/68-59-5-3/25 An Investigation of the Donets Coals using Methods Adopted in the International Classification of Coals

> the diagram: thickness of plastic layer - volatile matter content in Fig 3. On the basis of the results obtained the following conclusions are drawn. Swelling index, due to the subjectiveness of its evaluation is not recommended for characterising the caking ability of the Donets coals. The Roga method can be utilised mainly as an additional parameter for differentiating Donets lean non-caking coals from lean weakly-caking coals. The method does not characterise technological properties of all well caking coals. The division of coals into 4 groups, adopted in the international classification, is insufficient for characterising the caking ability of a large number of coals. In respect of Donets coals, 1-2 additional groups are necessary. The deficiency of the dilatometric method consists in that it is insufficient for the division into subgroups of coals which are evaluated by this method not by the maximum expansion but only by the maximum contraction of specimens. Subjective evaluation of the results obtained by the Grey King method presents its main

Card 2/3

SOV/68-59-5-3/25

An Investigation of the Donets Coals using Methods Adopted in the International Classification of Coals

deficiency. The coals and anthracites investigated can be divided according to the international classification into 23 types (out of 61 types in the classification) and 10 groups (out of 11). The plastometric index - thickness of the plastic layer can be recommended as a parameter of the coking ability of coals for the international classification.

Card 3/3 international classification.
There are 3 tables and 3 figures.

ASSOCIATION: UKhIN

CIA-RDP86-00513R001550110005-3 "APPROVED FOR RELEASE: 08/09/2001

MIROSHNICHENKO, A.M., SHTROMBERG, B.I., GARBAR, A.K., MOLSEYEVA, Kh. M., STRUYEV, M.I., SAVKOVA, V.P., CHUGUNOVA, A. Ye.

Technological properties of lower carboniferous coals in the Western Donets Basin. Koks i khim. no.3:3-8 '60. (MIRA 13:6)

- 1. Trest "Ukruglegeologiya" (for Struyev, Savkova, Chugunova). 2. Ukrainskiy uglekhimicheskiy institut (for Miroshnichenko,

Shtromberg, Garbar, Moiseyeva).

(Donets Basin--Coal)

MIROSHNICHENKO, A.M.; SHTROMBERG, B.I.; DAVIDOVICH, A.Z.; KAPLUN, A.I.; MATSIYEVICH, L.F.; POTASHNIKOVA, M.M.; KUL'MAN, R.K.; GERIANETS, L.M.

Differentiation of leaned out weakly caking coals and lean noncaking coals of the Donets Basin. Koks i khim. no.5:9-10 '60. (MIRA 13:7)

1. Ukrainskiy uglekhimicheskiy institut (for Miroshnichenko, Shtromberg, Davidovich, Kaplun, Matsiyevich). 2. Stalinskiy koksokhimicheskiy zavod (for Potashnikova, Kuliman, Gerlansts).

(Coal--Classification)

SHTROMBERG, B.I.; MIROSHNICHENKO, A.M.; MOYSEYEVA, Kh.M.; KRIVOKON', Yu.G.; BRUK, A.S.; VOLKOVA, Z.A.; GEYD, G.P.; OBUKHOVSKIY, Ya.M.

Investigation of the coals of the Lvov-Volyn' Basin. Koks i khim. no.1:12-17 '61. (MIRA 14:1)

1. Ukrainskiy uglekhimicheskiy institut (for Shtromberg, Miroshnichenko, Moyseyeva, Krivokon'). 2. Dnepropetrovskiy metallurgicheskiy institut (for Bruk, Volkova, Geyd, Obukhovskiy).

(Ivov-Volyn' Basin--Coal)

SHTROMBERG, B.I.; DVUZHIL'NAYA, N.M.

Typfication of Conets coal and anthracite mined in 958 in accordance with the international coal classification. Koke 1 (MIRA 15:2)

khim. no.1:12-14 '62.

1. Ukrainskiy uglekhimicheskiy institut (for Shtromberg).
2. Donetskiy nauchno-issledovatel'skiy ugol'nyy institut (for Dvuzhil'naya).

(Donets Basin—Coal—Classification)

MIROSHNICHENKO, A.M.; SHTROMBERG, B.I.; KRIVOKON', Yu.G.; SHINKAREVA, T.V.; DRUY, G.N.; DVUZHIL'NAYA, N.M.; GUTMAN, L.M.; KUL'MAN, R.K.; KOVALEVSKAYA, H.M.

Coking of a charge containing 40% gas coals and blast-furnace smelting with coke obtained by this method. Koks i khim. no.2:20-24 (MIMA 16:2)

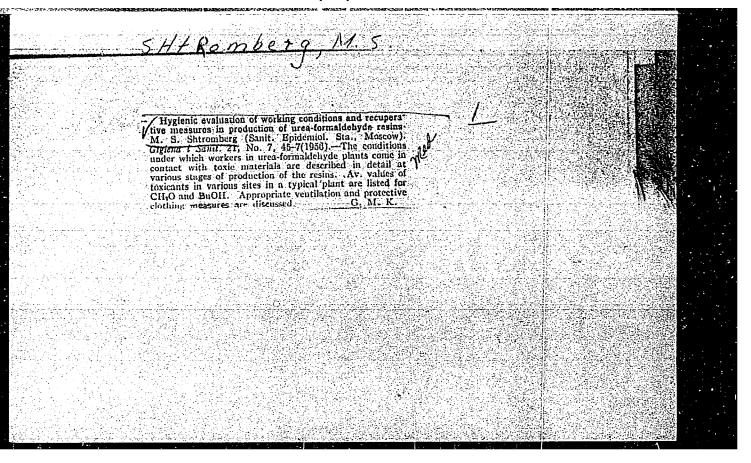
1. Ukrainskiy uglekhimicheskiy institut (for Miroshnichenko, Shtromberg, Krivokon', Shinkareva, Druy). 2. Donetskiy nauchno-issledovatel'skiy ugol'nyy institut (for Dvuzhil'naya). 3. Donetskiy koksokhimicheskiy zavod (for Gutman, Kul'man, Kovalevskaya).

(Coke) (Metallurgical furnaces)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110005-3"

MIROSHNICHENKO, A.M., kand. tekhn. nauk; PANCHENKO, S.I., doktor tekhn. nauk; SHTROMBERG, B.I., kand. tekhn. nauk; FRISHEERG, V.D., kand. tekhn. nauk; BAYDALINOV, P.A., inzh.; CEYAZNOV, N.S., doktor tekhn. nauk; ZASHKVARA, V.G., doktor tekhn. nauk; LAZOVSKIY, I.M., kand. tekhn. nauk; MARINICHEV, B.T., inzh.; FEL'DBRIN, M.G., kand. tekhn. nauk; BAKUN, N.A., inzh.; BARATS, B.M., inzh.; VOZNYY, G.F., kand. tekhn. nauk; MIKHAL'CHUK, A.M., inzh.; TOPORKOV, V.Ya., kand. tekhn. nauk; FLORINSKIY, N.V., inzh.; KHAYET, A.N., inzh.; SHELKOV, A.K., inzh., red.; ARONOV, S.G., doktor tekhn.nauk, red.; PREOBRAZHENSKIY, P.I., inzh., red.

[Manual for coke chemists in six volumes] Spravochnik koksokhimika v shesti tomakh. Moskva, Izd-vo "Metallurgiia." Vol.1.
[Source of raw materials and preparation of coal for coking]
Syr'evaia baza i podgotovka uglei k koksovaniiu. 1964. 490 p.
(MIRA 17:5)



SHTROMBERG, S.
USSR/Electronics - Television

Card 1/1

Authors

: Likhachev, M. and Shtromberg, P.

Title : The large Television Screen

Periodical : Radio. 5, 36 - 38, May 1954

Abstract : This article gives a general description of a television receiver

set used in the Moscow movie house "Ermitazh" (Hermitage). The picture received by the television set is projected on a screen of 3x4 meters. The article discusses the technical problems involved, namely: clarity of image, light and acoustics. It also discusses the improvements intended to be introduced into the television sets used for large audiences. Four illustrations giving a general view

of the set and some of its parts are shown.

Institution :

Submitted :

ShTROM I	nics - Television
Card 1/1	Pub. 89 - 24/27
Authors :	Shtromberg, R. Television and its future
IIIIe	사용 보다 보다 보다 보다 되었다. 그는 사람들은 사람들이 되었다. 그런 사용 보다 되었다. 그는 사람들이 되었다. 그는 사람들이 되었다. 그렇게 함께 함께 2012년 - 1915년
Periodical :	Radio 1, 56-58, Jan 1955
Abstract !	The author discusses the difficulty of getting television reception to all parts of the Soviet Union due to the fact that certion to all parts of the Soviet Union due to the fact that the separate stations have relatively short range, but claims that stations are being constructed continually thus spreading that stations are being constructed continually thus spreading television into regions at present not reached by it. Color television is also being developed and stereoscopic television television is also being developed and stereoscopic television is being studied. Some analysis is made of the possibility of the application of television in industry. Illustrations.
Institution:	
Submitted :	

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110005-3"

Television in the national (Television)	economy.	Radio no.3:45-47	Mr 155. (MLRA 8:	4)

SHTROMBERG, R.

107-57-5-50/63

AUTHOR: Likhachev, M., Shtromberg, R.

TITLE: "Moskva" Projection-Type TV Set (Proyektsionnyy televizor "Moskva")

PERIODICAL: Radio, 1957, Nr 5, p 45 (USSR)

ABSTRACT: One of Moscow radio plants has started a batch production of projection-type tv sets (see second page of the back cover). The new tv set is intended for various public places like schools, hospitals, clubs, etc. Its 0.9x1.2 m concave-cylindrical aluminum screen has a brightness of 1.5-2 millistilbs and is normally placed at 2.5 m from the kinescope; its weight is 25 kg (with its housing). The 5-channel tw set proper has a sensitivity of 100 gr or better, definition 500-550 lines, a-f response 40-12,000 cps, sound amplifier power 4 w. (It can be used also as a 64-73 mc f-m radio receiver). Five dynamic loudspeakers are mounted on all four sides of the cabinet: two 5-watt 5GD10 on the front wall, one 1-watt 1GD9 on each side wall, and one 5-watt 5GD14 on the rear (that is, facing the large screen) wall of the cabinet. The projection-type 6LKIB kinescope has a 65-mm diameter screen or a format of 36x48 mm, light-spot diameter 0.06-0.07 mm, high voltage 25 kv, mean beam current 100-150 ma, screen brightness 1-1.5 stilbs, rated life 500 hrs at 150 pa beam current (actual life has been over 2,000 hrs in most cases). Size of the cabinet 560x460x820 mm. Other data given.

There are one figure in the article and one on the second page of the back cover. AVAILABLE: Library of Congress

card 1/1

THE PERSON NAMED IN	ERG, R.M Mixtures	for ire	on casting	g without	additio	n of coa	l dust. (Ml	Lit. RA 11:	4)		1
	proizv.	no.3:27	Mr 158.	on foundi	ng)						
					· 						
										٠	

CIA-RDP86-00513R001550110005-3 "APPROVED FOR RELEASE: 08/09/2001

25(1,7)

SOV/117-59-4-27/36

AUTHOR:

Shtromberg, R.M., Engineer

TITLE:

Light Pneumatic Rammers.

PERIODICAL:

Mashinostroitel', 1959, Nr 4, p 38 (USSR)

ABSTR.CT:

The subject light-weight rammers (Figure 1) devised and made at the Odesskiy zavod frezernykh stankov (Odessa Milling Machine Plant) are designed for ramming small earth molds and cores on manual molding boards. The rammer weighs 5.8 kg is 470 mm long and is suspended on a special spring bracket (Figure 2) to eliminate holding it during operation. Rubber tips (Figure 3) protect the wood patterns and core boxes

from damage in ramming. It is mentioned that the pneumatic "TR-1" rammers made by the zavod "Pnevmatik" (Plant "Pneumatic") are suitable only for large mold and core boxes. There are 3 diagrams.

Card 1/1

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110005-3"

TERENT YEV.	V.; SHTROMBERO	}, Ya.				
Ley	ring lightweigh	t walls. Stroitel' Bricklaying)	no.7:19 Jl	158.	(MIRA 11:9)	
	\ .	Bricklaying)				
						2
					And the second	
				1.5		
					the second second	
			the second			

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110005-3"

2.1. Cvesturanive iye Kokono mital'nykh Tsekhov. Tskatil. Prom-st', 1949, No. 8, 3. 24-30
30: L. O'IJ HO 34
13. Pishch vaya 1 Vkusovaya Promyshlen_nost'

SHTROMBERG, Yakov Abramovich, kandidat tekhnicheskikh nauk; ZHILO, M.Ye., redaktor; AVRUTSKAIA, R.F., redaktor izdatel'stva; MIKHAYLOVA, V.V., tekhnicheskiy redaktor

[Dustremoval ventilation in rolling mills] Obespylivaiushchaia ventiliatsiia prokatnykh stanov. Moskva, Gos.nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1957. 71 p.

(MIRA 10:9)

(Factories--Heating and ventilation)

AUTHORS. Shtromberg, Ya. A. and Babalov, A.F., (Candidates of technical sciences).

The shielding and ventilation of control posts. (Ekranizatsiya i ventilyatsiya postov upravleniya).

"Metallurg" (Metallurgist), 1957, No.3, pp.27-28. (U.S.S.R.)

Details are given of arrangements made to improve working conditions in a control post whose wall temperatures were previously 53-54 and 62 C. Aluminium foil was provided for screening radiation, the windows were made three-layer, with 15-20 mm air gaps and air, cooled by evaporation of water, was used to ventilate the compartment. In the winter the air stream is heated. The Ministry of Ferrous Metallurgy of the U.S.S.R. has

Card 1/1 proposed that 18 of the largest metallurgical works should adopt this system for control points in rolling mills.

this system for control bothes in torring mirra.

ASSOCIATION: All-Union Research Institute for labour protection VTsSPS imeni

S.M. Kirova (Vsesoyuznyy nauchno-issledovatel skiy institut

okhrany truda VTsSPS im. S.M. Kirova).

There are two diagrams.

AVAILABLE:

TITLE:

PERIODICAL:

ABSTRACT:

PETROV, A.K.; SPERANSKIY, V.G.; KHIZHNICHENKO, A.M.; SHILYAYEV, B.A.;
DANILOV, A.K.; BORODULIN, G.M.; ZAMOTAYEV, S.P.; MARKARYANTS, A.A.;
SOLNTSEV, P.I.; SMIRNOV, Yu.D.; VAYNBERG, G.S.; OKOROKOV, N.V.;
KOLOSOV, M.I.; SEL'KIN, G.S.; MEDOVAR, B.I.; LATASH, Yu.B.;
YEFROYMOVICH, Yu.Ye.; VINOGRADOV, V.M.; SVEDE-SHVETS, N.N.;
SKOROKHOD, S.D.; KATSEVICH, L.S.; SHTROMBERG, Ya.A.; MIKHAYLOV,
O.A.; PATON, B.Ye.

新疆域。在西班里的中心是全国的中心是是国际的。他们也不是在这种的意思,也可能是自己的的的是是这种的,我就是这种的的,我们就是这种的的是是是是这种的的,我们就是这

Reports (brief annotations). Biul. TSNIICHM no.18/19:67-68 57. (MIRA 11:4)

1. Zavod Ineprospetsstal' (for Speranskiy, Borodulin). 2. Chelyabin-skiy metallurgicheskiy zavod (for Khizhnichenko). 3. Uralmashzavod (for Zamotayev). 4. Trest "Elektropech'" (for Vaynberg). 5. Moskov-skiy institut stali (for Okorokov). 6. TSentral'nyy nauchno-issledo-vatel'skiy institut chernoy metallurgii (for Sel'kin, Svede-Shvets). 7. Institut elektrosvarki AN USSR (for Paton, Medovar, Iatash). 8. TSentral'naya laboratoriya avtomatiki (for Yefroymovich, Vinogradov). 9. Gisogneupor (for Skorokhod). IO. Trest "Elektropech'" (for Katsevich). 11. Tbilisskiy nauchno-issledovatel'skiy institut okhrany truda Vsesoyuznogo tsentral'nogo soveta profsoyuzov (for Shtromberg).

(Steel-Metallurgy)

137-58-6-11788

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 84 (USSR)

AUTHOR: Shtron

Shtromberg, Ya.A.

TITLE.

The Cleaning of Electric Furnace Gases (Ochistka gazov elek-

trostaleplavil'nykh pechey)

PERIODICAL:

Tr. Nauchno-tekhn. o-va chernoy metallurgii, 1957, Vol

18, pp 673-678

ABSTRACT:

A device for cleaning the gases (G) of electric steel-foundry furnaces is described. When G are removed by natural ascent through a roof skylight, it is recommended that the skylight be of stepped construction to eliminate excess heat, and that it be of large cross-section above furnaces and smaller between them, and that cleaning of the G be by an axial blower constituting a filter as well, having additional blades welded at right angles to the center of its major blades, the whole impeller angles to the center of its major blades, the whole impeller being housed in a shell, the lower portion of which is perforbeing housed in a shell, the lower portion of which is perforated and wetted with water calculated on the basis of 0.1-0.15 liter per m³ air. The dust is removed from the blower as slime through a funnel in its lower portion. One furnace may have from 1 to 6 blowers. Foam-type filters are recommended

Card 1/2

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110005-3"

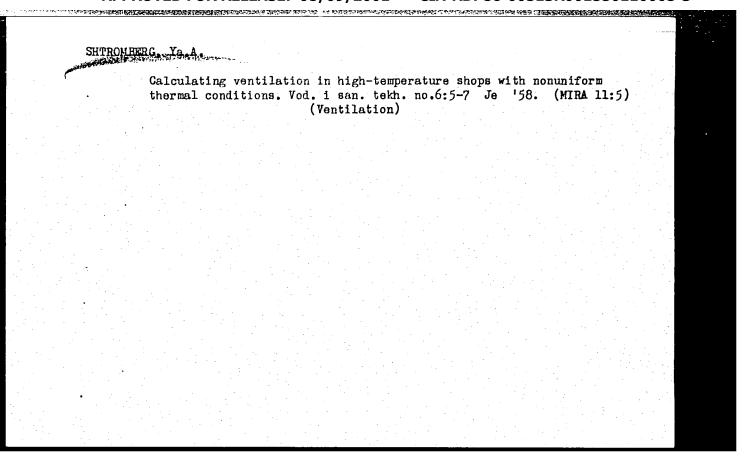
137-58-6-11708

. The Cleaning of Electric Furnace Gases

for the cleaning of G to be withdrawn locally. In these, the G enters beneath a 5-mm-mesh screen, passes through these openings and a layer of water delivered atop the screen in quantity of $0.15\text{-}0.3~f/m^3$ G, forming a foam 20-600 mm high, and then passes through a labyrinth filling to trap the splash. Dust catchers of this design are 82-92% efficient. G may also be cleaned by means of filter blowers consisting of an ordinary centrifugal blower and two shells - an inner shell with 5-8-mm holes and a solid lower shell with a funnel for collecting and removing the pulp. The cleansing coefficient of these blowers is 90-99%; they consume 300 g water per m³ of air.

1. Waste gases--Purification 2. Electric furnaces--Operation 3. Blowers--Design 4: Blowers--Applications 5. Filters--Applications

Card 2/2



SHTROMBER	RG, Ya.A., kand. tekhn. nauk	
î.,, P	Protection of hot-shop workers from excessive heat. Bezop. ruda v prom. 3 no.2:14-15 F 59. (MIRA 12:2)	
1 8	. Thilisskiy institut okhrany truda Vsesoyuznogo tsentral nog soveta profsoyuzov. (Metallurgical plantsSafety measures)	0

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110005-3"

SHTROMBERG, Ya.A. (Tbilisi)

Ascration calculations for hot shops. Vod.i san.tskh. no.2:
25-27 F '60.

(Factories---Ventilation)

(MIRA 13:5)

7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PERMITTER CO.	and a remaining of the second										
SHTROM	BERG.	Ya.A.	(Tbilisi	L)								
					factories.	Vod.	i san.	tek h.	no.10	.8 - 13 0		
-	160.						- 1		(MIRA	13:11)	· · · · · · ·	
100				(Facto	oriesAir	condit:	loning)					
:												
			-			- 						

SHTROMBERG, Ya.A.

Ventilation of machine rooms in metallurgical plants, Vod. i san. tekh. nc. 12:14-15 D '60. (MIRA 14:4)

(Metallurgical plants—Heating and ventilation)

SHTROMBERG, Ya.A., kand.tekhn.nauk

Improving labor conditions in metallurgical and hot metalworking plants. Stal' 20 no. 12:1153-1155 D'60. (MIRA 13:12)

1. Tbilisskiy institut okhrany truda Vsesoyuznogo tsentral'nogo soveta profsoyuzov.

(Metallurgical plants--Ventilation)

(Metalworkers--Diseases and hygiene)

ROCHINASHVILI, A.V., kand.tekhn.nauk; SHTROMBERG, Ya.A., kand.tekhn.nauk

Purification of exhaust gases from metallurgical plants by means
of foam filters. Stal' 23 no.9:859-861 S '63. (MIRA 16:10)

SHTROMBERG, Ya.A.; KALINUSHKIN, M.P., prof., retsenzent; DZHALAGANIYA, K.I., inzh., retsenzent; YERMOKHINA, N.V., red.
[Ventilation and the air conditioning in the tea processing industry] Ventiliatsiia i konditsionirovanie vozdukha v chaeobrabatyvaiushchei promyshlennosti. Moskva, Izd-vo "Pishchevaia promyshlennosti," 1964. 217 p.

(MIRA 17:6)

SHTROMEERG, Ya.A., kand. tekhn. nauk (Tbilisi)

Effect of the layout of the equipment on the effectiveness of the aeration of forge shops. Vod. i san. tekh. no.1:25-27 Ja. '66.

(MIRA 19:1)

